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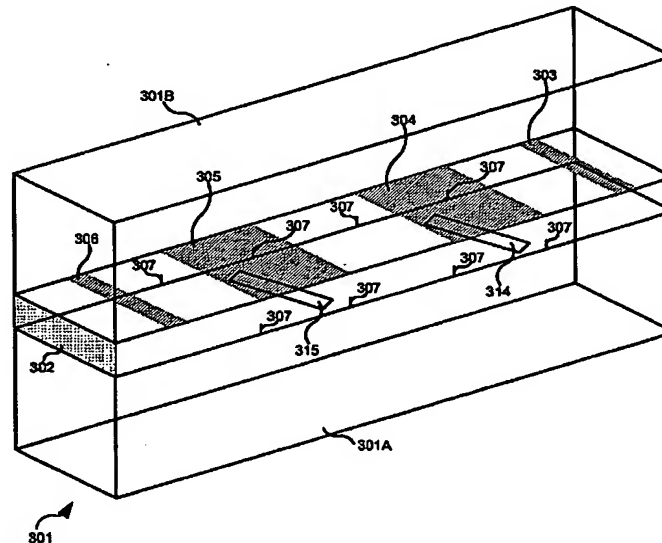
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(54) Title: WAVEGUIDE E-PLANE RF BANDPASS FILTER WITH PSEUDO-ELLIPTIC RESPONSE



(57) Abstract: The invention relates to RF bandpass filters with pseudo-elliptic response. In a filter comprising a dielectric substrate 302 placed in E position in a rectangular waveguide 301 and comprising inserts 303-306 on one of the surfaces of the substrate are placed conductors linked electrically to the walls of the guide, and on the other surface of the substrate opposite these conducting inserts are placed electrically floating inserts that make it possible to determine zeros in the transmission curve of the filter. This yields a filter exhibiting a response curve of pseudo-elliptic type which improves the rejection of spurious frequencies without increasing the dimensions of the filter.

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